

Fig. 1

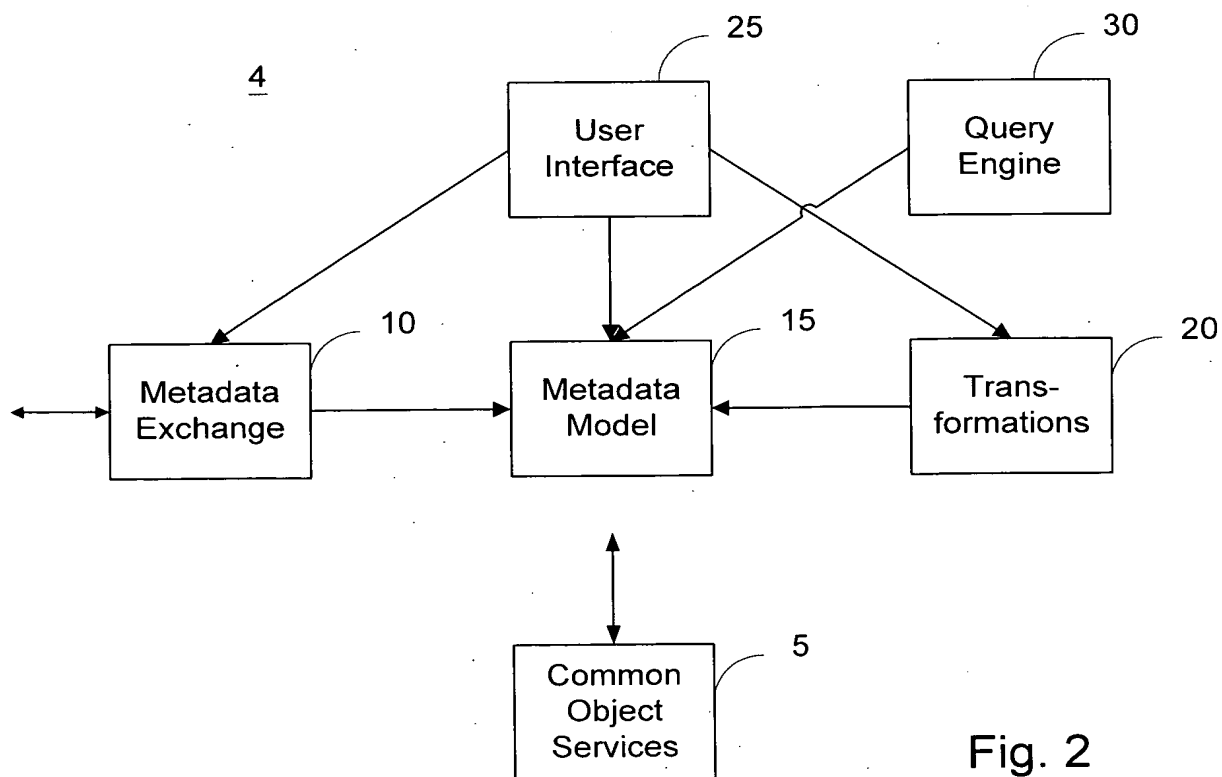


Fig. 2

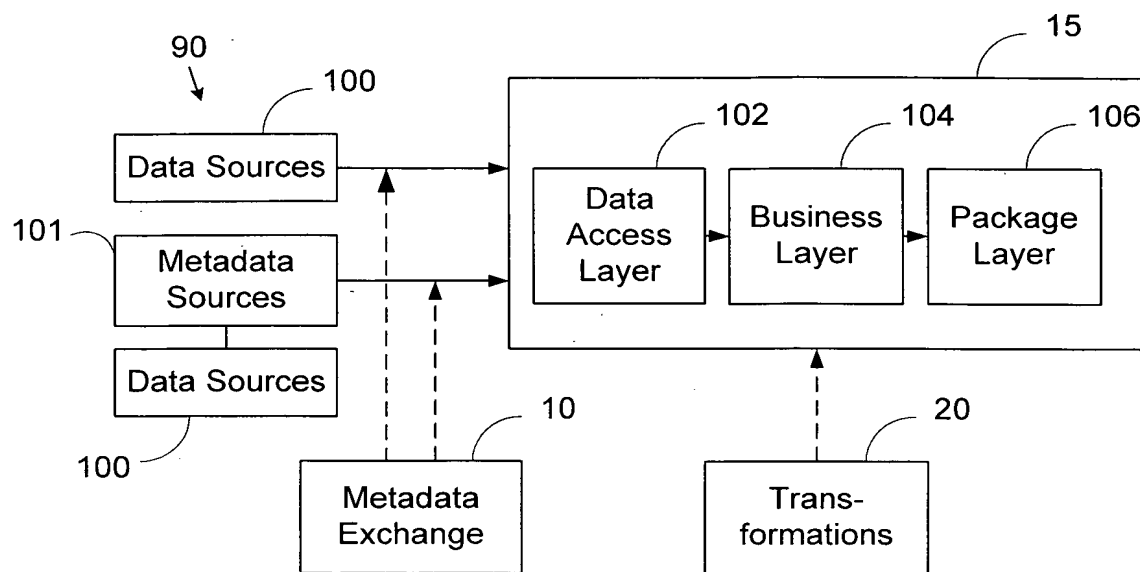


Fig. 2A

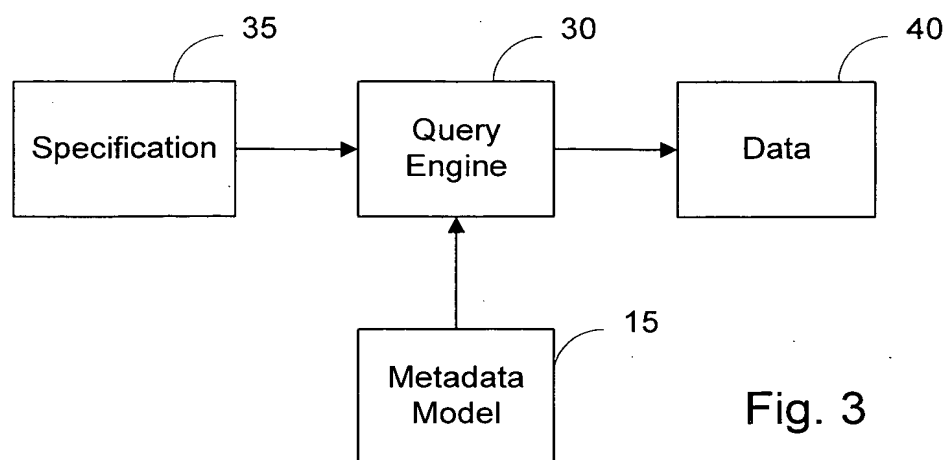
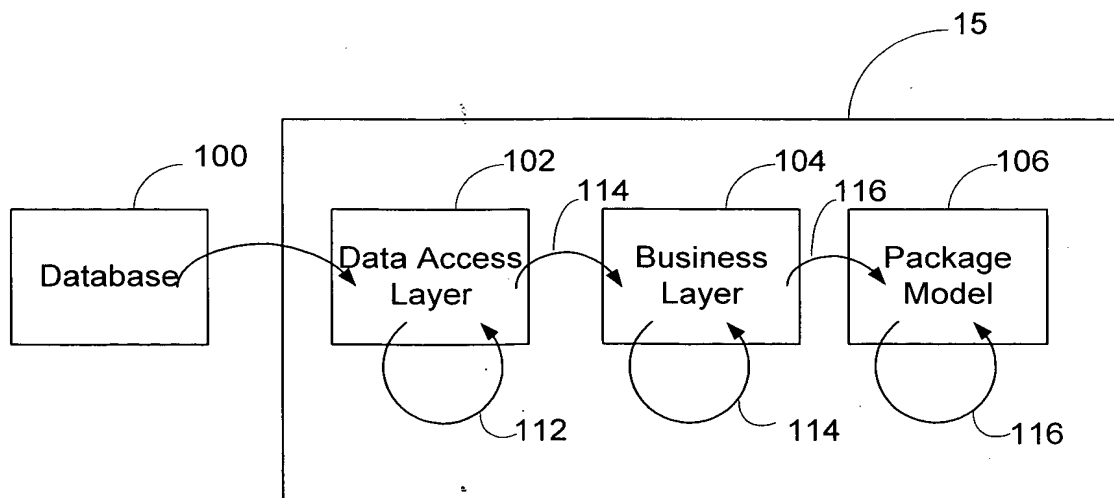
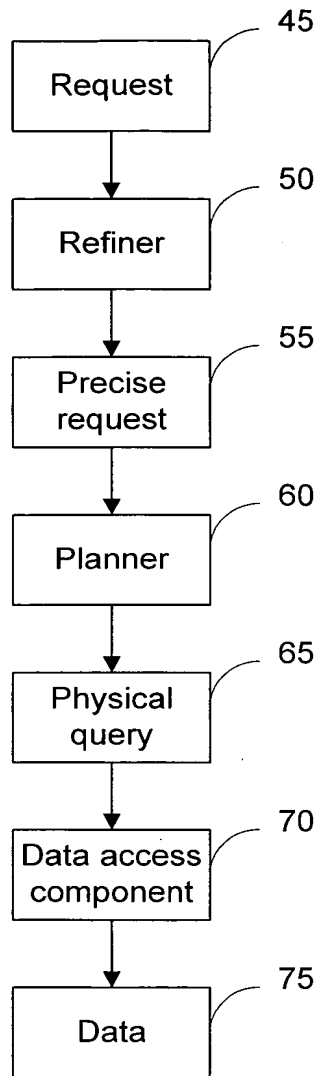


Fig. 3





## Data Access Model Transformations 112

|      |  |
|------|--|
| 112a | Data Access Join Constructing Transformation |
| 112b | Data Access Key Constructing Transformation  |
| 112c | Table Extract Constructing Transformation    |
| 112d | Data Access Cube Constructing Transformation |

## Business Model Transformations 114

|      |  |
|------|--|
| 114a | Basic Business Model Constructing Transformation       |
| 114b | Many to Many Join Relationship Fixing Transformation   |
| 114c | Entity Coalescing Transformation                       |
| 114d | Redundant Join Relationship Eliminating Transformation |
| 114e | Subclass Relationship Introducing Transformation       |
| 114f | Entity Referencing Transformation                      |
| 114g | Attribute Usage Determining Transformation             |
| 114h | Date Usage Identifying Transformation                  |

## Multidimensional Model Transformations 115

|      |   |
|------|---|
| 115a | Measure Identifying and Measure Dimension Constructing Transformation |
| 115b | Category Dimension and Level Constructing Transformation              |
| 115c | Logic Cube Constructing Transformation                                |

## Package Model Transformations 116

|      |  |
|------|--|
| 116a | Basic Package Model Constructing Transformation      |
| 116b | Package Constructing Transformation for Cognos Query |

## General Transformations 117

|      |                              |
|------|------------------------------|
| 117a | Name Mutation Transformation |
|------|------------------------------|

Fig. 4B

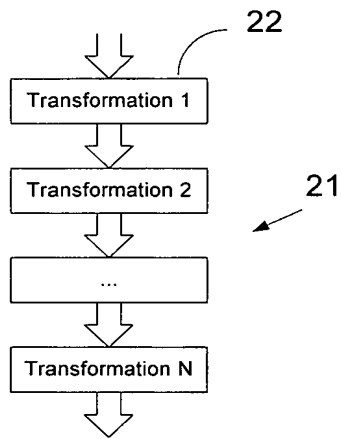


Fig. 5

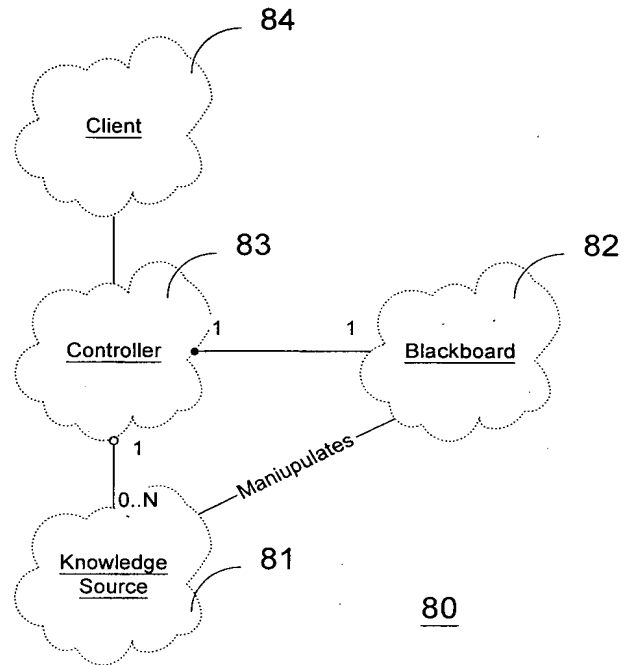


Fig. 6

| Prohibit | Object Processed | Parent Relationship Processed | Parent Action   | Child Relationship Processed | Child Action  |
|----------|------------------|-------------------------------|---|------------------------------|---|
| Yes      | Don't Care       | Don't Care                    | Nothing   | Don't Care                   | Nothing   |
| No       | No               | Doesn't Exist                 | Create new target object and relationship as processed after processing children. |                              | Mark object and relationship as processed after                                       |
|          |                  | No                            | Mark object and relationship as processed after processing children.              |                              |   |
|          |                  |                               |   | Doesn't Exist                | Create new target object and relationship. Mark object and relationship as processed. |
|          |                  |                               |   | No                           | Mark relationship as processed  |
|          |                  |                               |   | Yes                          | Nothing   |
|          |                  | Yes                           | Process children.   |                              |   |
|          |                  |                               |   | Doesn't Exist                | Create new target object and relationship. Mark object and relationship as processed. |
|          |                  |                               |   | No                           | Mark relationship as processed  |
|          |                  |                               |   | Yes                          | Nothing   |
|          | Yes              | Doesn't Exist                 | Nothing   |                              |   |
|          |                  | No                            | Mark object and relationship as processed after processing children.              |                              |   |
|          |                  |                               |   | Doesn't Exist                | Create new target object and relationship. Mark object and relationship as processed. |
|          |                  |                               |   | No                           | Mark relationship as processed  |
|          |                  |                               |   | Yes                          | Nothing   |
|          |                  | Yes                           | Process children.   |                              |   |
|          |                  |                               |   | Doesn't Exist                | Nothing   |
|          |                  |                               |   | No                           | Mark relationship as processed  |
|          |                  |                               |   | Yes                          | Nothing   |

Fig. 7

**SOURCE**

120

124

122

SQL Statement

## Data Access Model Tables

128

124

130

126

SQL Statement

Table

### Query Specification (Data Access)

Target

128

124

130

132

SQL Statement

Table

### Query Specification (Logical)

Fig. 8



122

152

150

150

| Table Name                                      | Segment Name | Brand # | City # | Country # | Customer # | Date | Item # | Line # | Office # | Order # | Order Line # | Received Date | Region # | Sales Region # | Sales Rep # | Site # | SKU # | State # | Warehouse # |
|---|--------------|---------|--------|-----------|------------|------|--------|--------|----------|---------|--------------|---------------|----------|----------------|-------------|--------|-------|---------|-------------|
| Brands  | 1            | 1       |        |           |            |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Cities  | 4            |         | 1      | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       |             |
| Countries                                       | 1            |         |        | 1         |            |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Customers                                       | 1            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Customer Sites                                  | 2            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             | 1      |       |         |             |
| Inventory                                       | 3            |         |        |           |            | 1    |        |        |          |         |              |               |          |                |             |        | 1     |         | 1           |
| Inventory by Date, Item, Region                 | 4            |         |        | 1         |            | 1    | 1      |        |          |         |              |               | 1        |                |             |        |       |         |             |
| Items   | 1            |         |        |           |            |      | 1      |        |          |         |              |               |          |                |             |        |       |         |             |
| Lines   | 1            |         |        |           |            |      |        | 1      |          |         |              |               |          |                |             |        |       |         |             |
| Offices   | 1            |         |        |           |            |      |        |        | 1        |         |              |               |          |                |             |        |       |         |             |
| Orders  | 1            |         |        |           |            |      |        |        |          | 1       |              |               |          |                |             |        |       |         |             |
| Orders by Received Date, Brand, Line and Item   | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              | 1             |          |                |             |        |       |         |             |
| Orders by Received Date, Item, Customer         | 3            |         |        |           | 1          |      | 1      |        |          |         |              | 1             |          |                |             |        |       |         |             |
| Orders by Received Date, Office                 | 2            |         |        |           |            |      |        |        | 1        |         |              | 1             |          |                |             |        |       |         |             |
| Orders by Received Date, Sales Region, Customer | 3            |         |        |           | 1          |      |        |        |          |         |              | 1             |          | 1              |             |        |       |         |             |
| Order Details                                   | 2            |         |        |           |            |      |        |        |          | 1       | 1            |               |          |                |             |        |       |         |             |
| Regions   | 2            |         |        | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       |         |             |
| Sales Regions                                   | 1            |         |        |           |            |      |        |        |          |         |              |               |          | 1              |             |        |       |         |             |
| Sales Rep Pictures                              | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Sales Reps                                      | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| SKU Items                                       | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                |             |        | 1     |         |             |
| States  | 3            |         |        | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       |             |
| Warehouses                                      | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                |             |        |       |         | 1           |
| Dim-Locations                                   | 7            |         | 1      | 1         |            |      |        |        | 1        |         |              |               | 1        | 1              |             |        |       | 1       | 1           |
| Dim-Products                                    | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              |               |          |                |             |        | 1     |         |             |
| Dim-Customers                                   | 2            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             | 1      |       |         |             |
| Dim-Sales Reps                                  | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Dim-Date  | 1            |         |        |           |            | 1    |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Fact-Orders                                     | 14           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        |         |              | 1             | 1        | 1              | 1           | 1      | 1     | 1       |             |
| Fact-Inventory                                  | 10           | 1       | 1      | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        | 1     | 1       | 1           |

Fig. 10

| Table Name                                      | Segment Name | Brand # | City # | Country # | Customer # | Date | Item # | Line # | Office # | Order # | Order Line # | Received Date | Region # | Sales Region # | Sales Rep # | Site # | SKU # | State # | Warehouse # |
|---|--------------|---------|--------|-----------|------------|------|--------|--------|----------|---------|--------------|---------------|----------|----------------|-------------|--------|-------|---------|-------------|
| Brands  | 1            | 1       |        |           |            |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Cities  | 4            |         | 1      | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       |             |
| Countries                                       | 1            |         |        | 1         |            |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Customers                                       | 1            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Customer Sites                                  | 2            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             | 1      |       |         |             |
| Inventory                                       | 10           | 1       | 1      | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        | 1     | 1       | 1           |
| Inventory by Date, Item, Region                 | 6            | 1       |        | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        |       |         |             |
| Items   | 3            | 1       |        |           |            |      | 1      | 1      |          |         |              |               |          |                |             |        |       |         |             |
| Lines   | 1            |         |        |           |            |      |        | 1      |          |         |              |               |          |                |             |        |       |         |             |
| Offices   | 6            |         | 1      | 1         |            |      |        |        | 1        |         |              |               | 1        | 1              |             |        |       | 1       |             |
| Orders  | 10           |         | 1      | 1         | 1          |      |        |        | 1        | 1       |              |               | 1        | 1              | 1           | 1      |       | 1       |             |
| Orders by Received Date, Brand, Line and Item   | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              | 1             |          |                |             |        |       |         |             |
| Orders by Received Date, Item, Customer         | 5            | 1       |        |           | 1          |      | 1      | 1      |          |         |              | 1             |          |                |             |        |       |         |             |
| Orders by Received Date, Office                 | 7            |         | 1      | 1         |            |      |        |        | 1        |         |              | 1             | 1        | 1              |             |        |       | 1       |             |
| Orders by Received Date, Sales Region, Customer | 3            |         |        |           | 1          |      |        |        |          |         |              | 1             |          | 1              |             |        |       |         |             |
| Order Details                                   | 15           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        | 1       | 1            |               | 1        | 1              | 1           | 1      | 1     | 1       | 1           |
| Regions   | 2            |         |        | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       |         |             |
| Sales Regions                                   | 1            |         |        |           |            |      |        |        |          |         |              |               |          | 1              |             |        |       |         |             |
| Sales Rep Pictures                              | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Sales Reps                                      | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| SKU Items                                       | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              |               |          |                |             |        | 1     |         |             |
| States  | 3            |         |        | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       |             |
| Warehouses                                      | 5            |         | 1      | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       | 1           |
| Dim-Locations                                   | 7            |         | 1      | 1         |            |      |        |        | 1        |         |              |               | 1        | 1              |             |        |       | 1       | 1           |
| Dim-Products                                    | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              |               |          |                |             |        | 1     |         |             |
| Dim-Customers                                   | 2            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             | 1      |       |         |             |
| Dim-Sales Reps                                  | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Dim-Date  | 1            |         |        |           |            | 1    |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Fact-Orders                                     | 14           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        |         |              | 1             | 1        | 1              | 1           | 1      | 1     | 1       |             |
| Fact-Inventory                                  | 10           | 1       | 1      | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        | 1     | 1       | 1           |

Fig. 11

| Table Name                                      | Segment Name | Brand # | City # | Country # | Customer # | Date | Item # | Line # | Office # | Order # | Order Line # | Received Date | Region # | Sales Region # | Sales Rep # | Site # | SKU # | State # | Warehouse # |
|---|--------------|---------|--------|-----------|------------|------|--------|--------|----------|---------|--------------|---------------|----------|----------------|-------------|--------|-------|---------|-------------|
| Order Details                                   | 15           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        | 1       | 1            |               | 1        | 1              | 1           | 1      | 1     | 1       |             |
| Fact-Orders                                     | 14           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        |         |              | 1             | 1        | 1              | 1           | 1      | 1     | 1       |             |
| Inventory                                       | 10           | 1       | 1      | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        | 1     | 1       | 1           |
| Orders  | 10           |         | 1      | 1         | 1          |      |        |        | 1        | 1       |              |               | 1        | 1              | 1           | 1      |       | 1       |             |
| Fact-Inventory                                  | 10           | 1       | 1      | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        | 1     | 1       | 1           |
| Orders by Received Date, Office                 | 7            |         | 1      | 1         |            |      |        |        | 1        |         |              | 1             | 1        | 1              |             |        |       | 1       |             |
| Dim-Locations                                   | 7            |         | 1      | 1         |            |      |        |        | 1        |         |              |               | 1        | 1              |             |        |       | 1       | 1           |
| Inventory by Date, Item, Region                 | 6            | 1       |        | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        |       |         |             |
| Offices   | 6            |         | 1      | 1         |            |      |        |        | 1        |         |              |               | 1        | 1              |             |        |       | 1       |             |
| Orders by Received Date, Item, Customer         | 5            | 1       |        |           | 1          |      | 1      | 1      |          |         |              | 1             |          |                |             |        |       |         |             |
| Warehouses                                      | 5            |         | 1      | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       | 1           |
| Cities  | 4            |         | 1      | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       |             |
| Orders by Received Date, Brand, Line and Item   | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              | 1             |          |                |             |        |       |         |             |
| SKU Items                                       | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              |               |          |                |             |        | 1     |         |             |
| Dim-Products                                    | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              |               |          |                |             |        | 1     |         |             |
| Items   | 3            | 1       |        |           |            |      | 1      | 1      |          |         |              |               |          |                |             |        |       |         |             |
| Orders by Received Date, Sales Region, Customer | 3            |         |        |           | 1          |      |        |        |          |         |              | 1             |          | 1              |             |        |       |         |             |
| States  | 3            |         |        | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       |             |
| Customer Sites                                  | 2            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             | 1      |       |         |             |
| Regions   | 2            |         |        | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       |         |             |
| Dim-Customers                                   | 2            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             | 1      |       |         |             |
| Brands  | 1            | 1       |        |           |            |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Countries                                       | 1            |         |        | 1         |            |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Customers                                       | 1            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Lines   | 1            |         |        |           |            |      |        | 1      |          |         |              |               |          |                |             |        |       |         |             |
| Sales Regions                                   | 1            |         |        |           |            |      |        |        |          |         |              |               |          | 1              |             |        |       |         |             |
| Sales Rep Pictures                              | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Sales Reps                                      | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Dim-Sales Reps                                  | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Dim-Date  | 1            |         |        |           |            | 1    |        |        |          |         |              |               |          |                |             |        |       |         |             |

Fig. 12

|               | Segment Name | Brand # | City # | Country # | Customer # | Date | Item # | Line # | Office # | Order # | Order Line # | Received Date | Region # | Sales Region # | Sales Rep # | Site # | SKU # | State # | Warehouse # |
|---------------|--------------|---------|--------|-----------|------------|------|--------|--------|----------|---------|--------------|---------------|----------|----------------|-------------|--------|-------|---------|-------------|
| Order Details | 15           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        | 1       | 1            |               | 1        | 1              | 1           | 1      | 1     | 1       |             |
| Fact-Orders   | 14           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        |         |              | 1             | 1        | 1              | 1           | 1      | 1     | 1       |             |

Fig. 13

|               | Segment Name | Brand # | City # | Country # | Customer # | Date | Item # | Line # | Office # | Order # | Order Line # | Received Date | Region # | Sales Region # | Sales Rep # | Site # | SKU # | State # | Warehouse # |
|---------------|--------------|---------|--------|-----------|------------|------|--------|--------|----------|---------|--------------|---------------|----------|----------------|-------------|--------|-------|---------|-------------|
| Order Details | 15           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        | 1       | 1            |               | 1        | 1              | 1           | 1      | 1     | 1       |             |
| Inventory     | 10           | 1       | 1      | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        | 1     | 1       | 1           |

Fig. 14

| Table Name                                      | Segment Name | Brand # | City # | Country # | Customer # | Date | Item # | Line # | Office # | Order # | Order Line # | Received Date | Region # | Sales Region # | Sales Rep # | Site # | SKU # | State # | Warehouse # |
|---|--------------|---------|--------|-----------|------------|------|--------|--------|----------|---------|--------------|---------------|----------|----------------|-------------|--------|-------|---------|-------------|
| Brands  | 1            | 1       |        |           |            |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Cities  | 4            |         | 1      | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       |             |
| Countries                                       | 1            |         |        | 1         |            |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Customers                                       | 1            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Customer Sites                                  | 2            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             | 1      |       |         |             |
| Inventory                                       | 3            |         |        |           |            | 1    |        |        |          |         |              |               |          |                |             |        | 1     |         | 1           |
| Inventory by Date, Item, Region                 | 4            |         |        | 1         |            | 1    | 1      |        |          |         |              |               | 1        |                |             |        |       |         |             |
| Items   | 1            |         |        |           |            |      | 1      |        |          |         |              |               |          |                |             |        |       |         |             |
| Lines   | 1            |         |        |           |            |      |        | 1      |          |         |              |               |          |                |             |        |       |         |             |
| Offices   | 1            |         |        |           |            |      |        |        | 1        |         |              |               |          |                |             |        |       |         |             |
| Orders  | 1            |         |        |           |            |      |        |        |          | 1       |              |               |          |                |             |        |       |         |             |
| Orders by Received Date, Brand, Line and Item   | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              | 1             |          |                |             |        |       |         |             |
| Orders by Received Date, Item, Customer         | 3            |         |        |           | 1          |      | 1      |        |          |         |              | 1             |          |                |             |        |       |         |             |
| Orders by Received Date, Office                 | 2            |         |        |           |            |      |        |        | 1        |         |              | 1             |          |                |             |        |       |         |             |
| Orders by Received Date, Sales Region, Customer | 3            |         |        |           | 1          |      |        |        |          |         |              | 1             |          | 1              |             |        |       |         |             |
| Order Details                                   | 2            |         |        |           |            |      |        |        |          | 1       | 1            |               |          |                |             |        |       |         |             |
| Regions   | 2            |         |        | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       |         |             |
| Sales Regions                                   | 1            |         |        |           |            |      |        |        |          |         |              |               |          | 1              |             |        |       |         |             |
| Sales Rep Pictures                              | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Sales Reps                                      | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| SKU Items                                       | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                |             |        | 1     |         |             |
| States  | 3            |         |        | 1         |            |      |        |        |          |         |              |               | 1        |                |             |        |       | 1       |             |
| Warehouses                                      | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                |             |        |       |         | 1           |
| Dim-Locations                                   | 7            |         | 1      | 1         |            |      |        |        | 1        |         |              |               | 1        | 1              |             |        |       | 1       | 1           |
| Dim-Products                                    | 4            | 1       |        |           |            |      | 1      | 1      |          |         |              |               |          |                |             |        | 1     |         |             |
| Dim-Customers                                   | 2            |         |        |           | 1          |      |        |        |          |         |              |               |          |                |             | 1      |       |         |             |
| Dim-Sales Reps                                  | 1            |         |        |           |            |      |        |        |          |         |              |               |          |                | 1           |        |       |         |             |
| Dim-Date  | 1            |         |        |           |            | 1    |        |        |          |         |              |               |          |                |             |        |       |         |             |
| Fact-Orders                                     | 14           | 1       | 1      | 1         | 1          |      | 1      | 1      | 1        |         |              | 1             | 1        | 1              | 1           | 1      | 1     | 1       |             |
| Fact-Inventory                                  | 10           | 1       | 1      | 1         |            | 1    | 1      | 1      |          |         |              |               | 1        |                |             |        | 1     | 1       | 1           |

Fig. 15

09653827 090100

| <u>Table</u>   | <u>Attributes</u>   |
|--|---|
| Brands   | <b>Brand #</b>  |
| Cities   | <b>Country #, Region #, State #, City #</b>   |
| Countries  | <b>Country #</b>  |
| Customers  | <b>Customer #</b>   |
| Customer Sites                                       | <b>Customer #, Site #</b>   |
| Dim-Customers  | <b>Customer #, Site #</b>   |
| Dim-Date   | <b>Date, Day-of-Month, Day-of-Week, Holiday, Quarter #, Week #</b>  |
| Dim-Locations  | <b>Country #, Region #, State #, City #, Warehouse #, Office #, Sales Region #</b>  |
| Dim-Products   | <b>Brand #, Line #, Item #, SKU #</b>   |
| Dim-Sales Reps                                       | <b>Sales Rep #</b>  |
| Fact-Inventory                                       | <b>Date, Country #, Region #, State #, City #, Warehouse #, Brand #, Line #, Item #, SKU #, Quantity on Hand</b>  |
| Fact-Orders  | <b>Customer #, Site #, Date, Country #, Region #, State #, City #, Office #, Sales Region #, Brand #, Line #, Item #, SKU #, Sales Rep #, Units, Cost</b> |
| Inventory  | <b>Warehouse #, SKU #, Date, Quantity on Hand</b>   |
| Inventory by Date, Item and Region                   | <b>Country #, Region #, Item #, Date, Quantity on Hand</b>  |
| Items  | <b>Brand #, Line #, Item #</b>  |
| Lines  | <b>Line #</b>   |
| Offices  | <b>Country #, Region #, State #, City #, Office #, Sales Region #</b>   |
| Orders   | <b>Order #, Sales Rep #, Customer #, Site #, Office #, Received Date</b>  |
| Orders by Received Date, Brand, Line, and Item       | <b>Received Date, Brand #, Line #, Item #, Units, Cost</b>  |
| Orders by Received Date, Item and Customer           | <b>Received Date, Item #, Customer #, Units, Cost</b>   |
| Orders by Received Date, Offices                     | <b>Received Date, Office #, Cost</b>  |
| Orders by Received Date, Sales Regions and Customers | <b>Received Date, Sales Region #, Customer #, Cost</b>  |
| Order Details  | <b>Order #, Order Line #, SKU #, Units, Cost</b>  |
| Regions  | <b>Country #, Region #</b>  |
| Sales Regions  | <b>Sales Region #</b>   |
| Sales Rep Pictures                                   | <b>Sales Rep #</b>  |
| Sales Reps   | <b>Sales Rep #</b>  |
| SKU Items  | <b>Item #, SKU #, Colour, Size</b>  |
| States   | <b>Country #, Region #, State #</b>   |
| Warehouses   | <b>Country #, Region #, State #, City #, Warehouse #</b>  |

Fig. 16

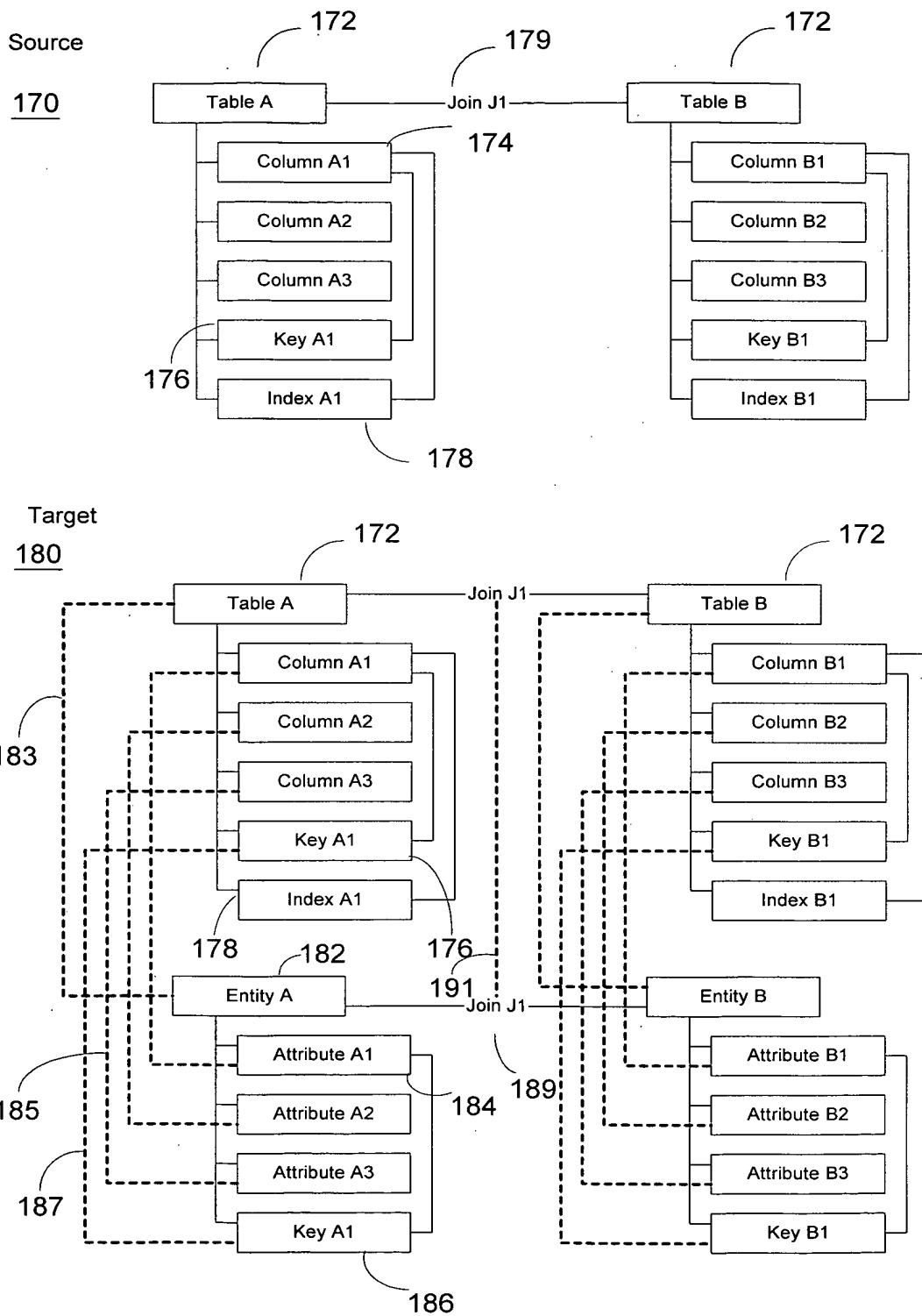
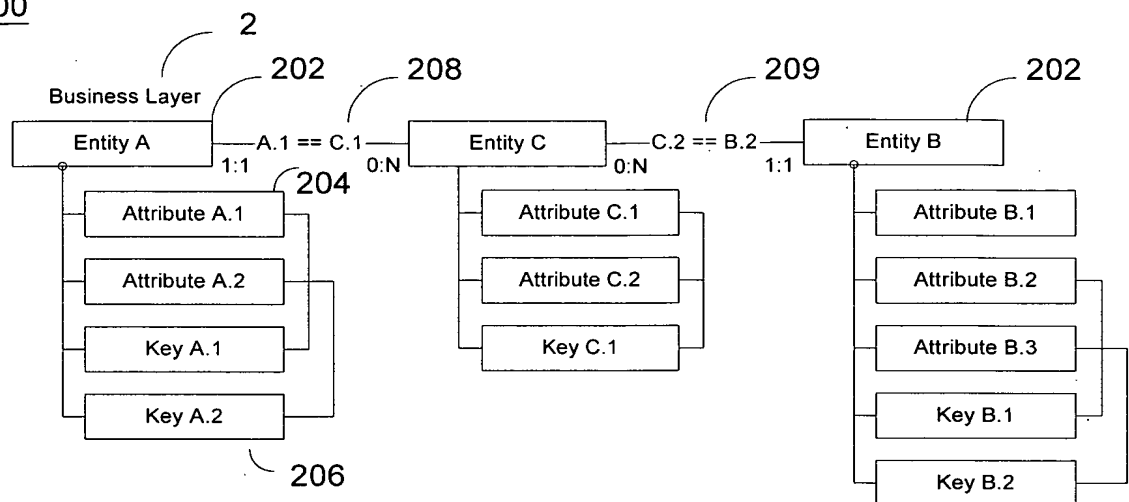


Fig. 17



200



220

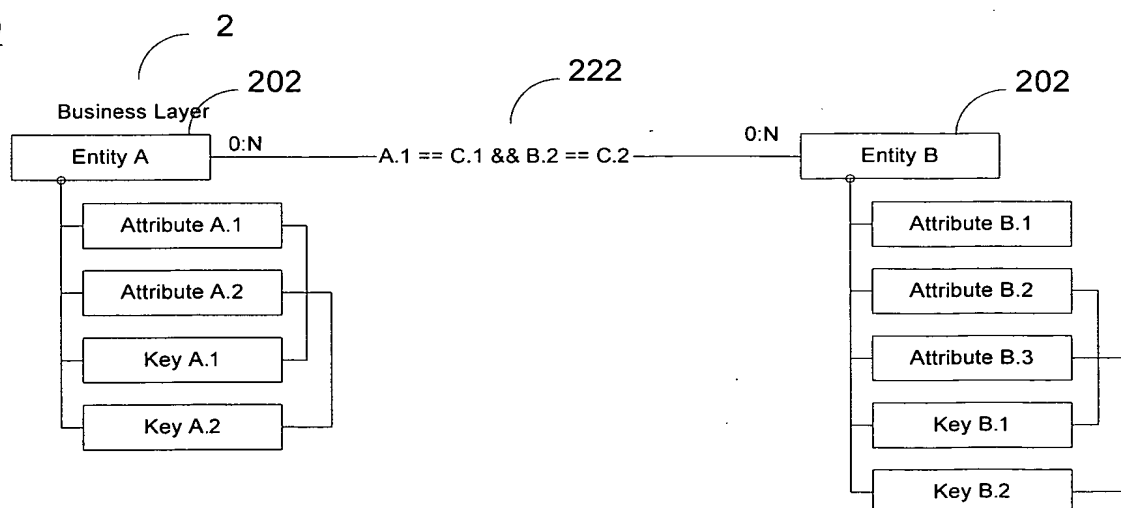


Fig. 18

240



260

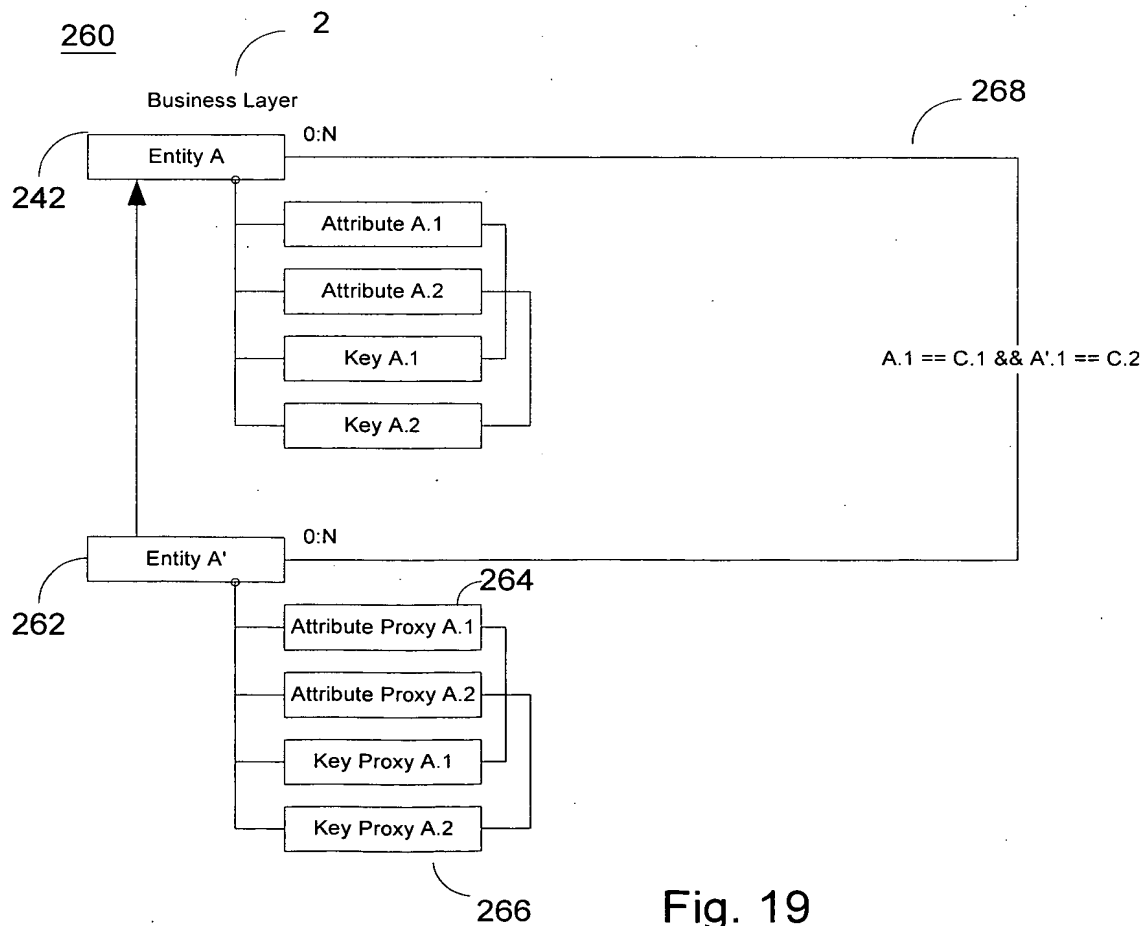


Fig. 19

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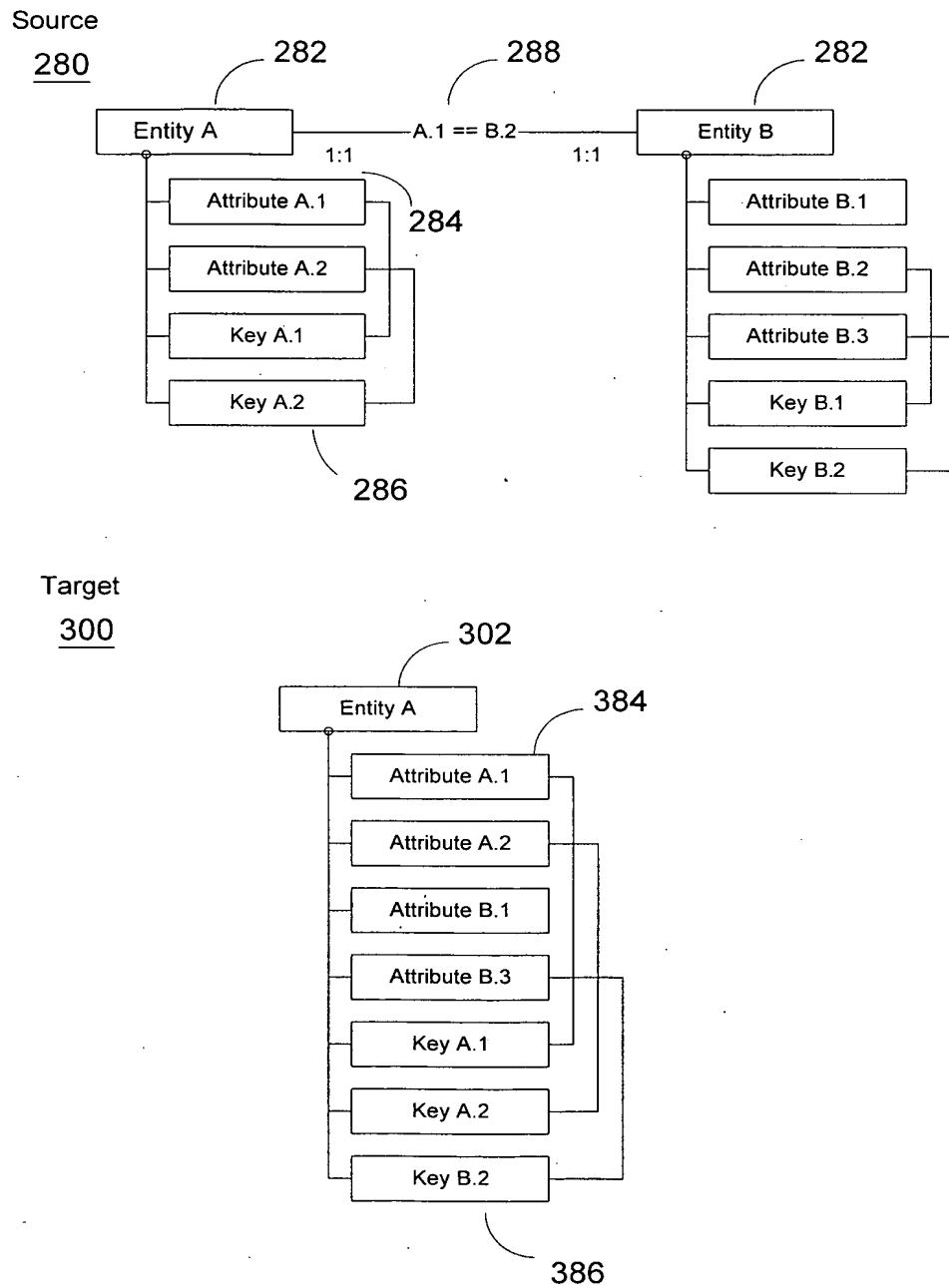


Fig. 20

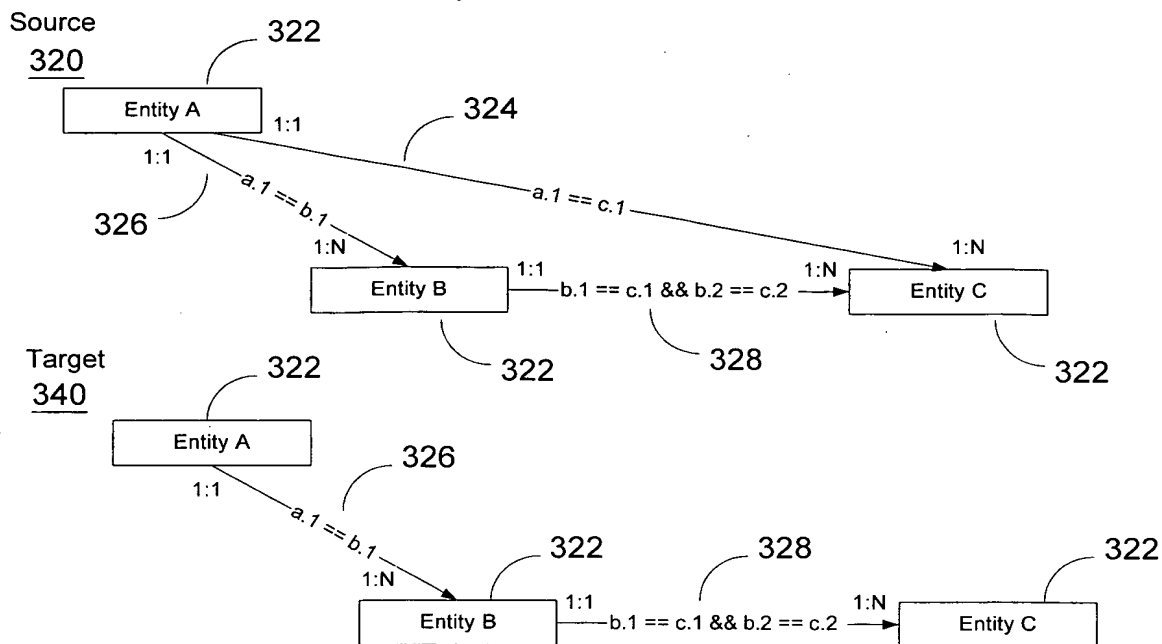


Fig. 21

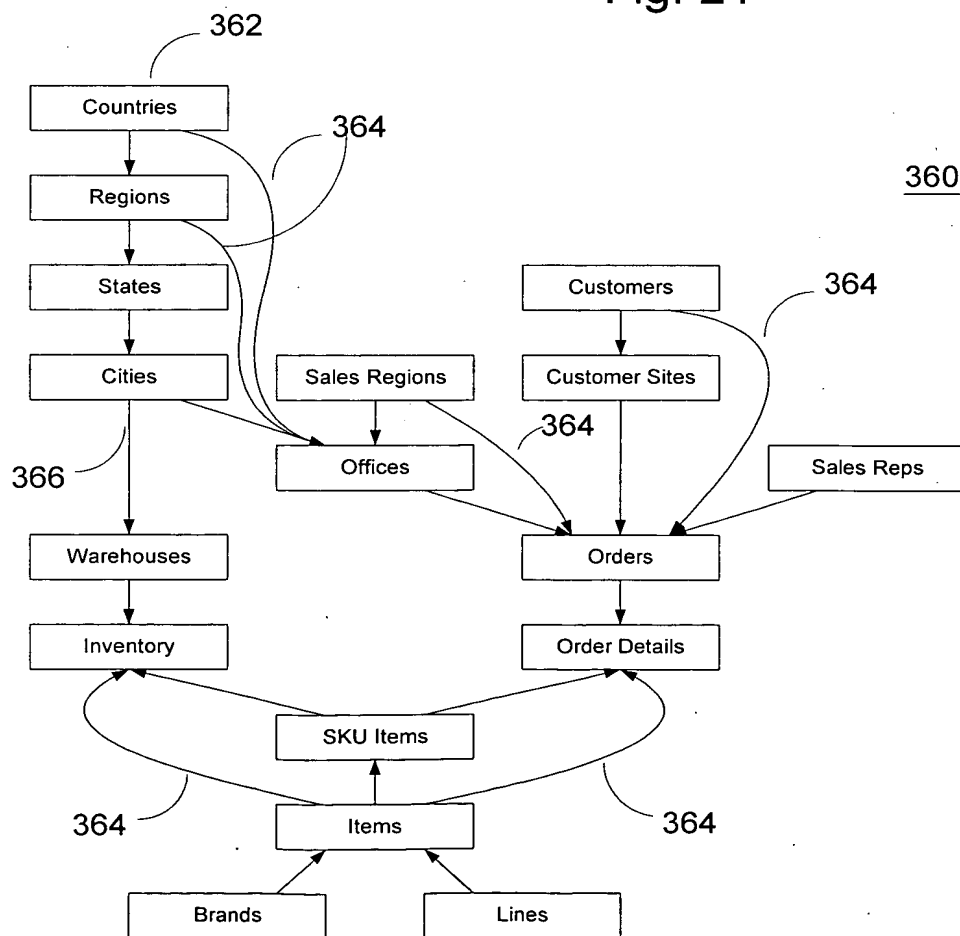


Fig. 22

370

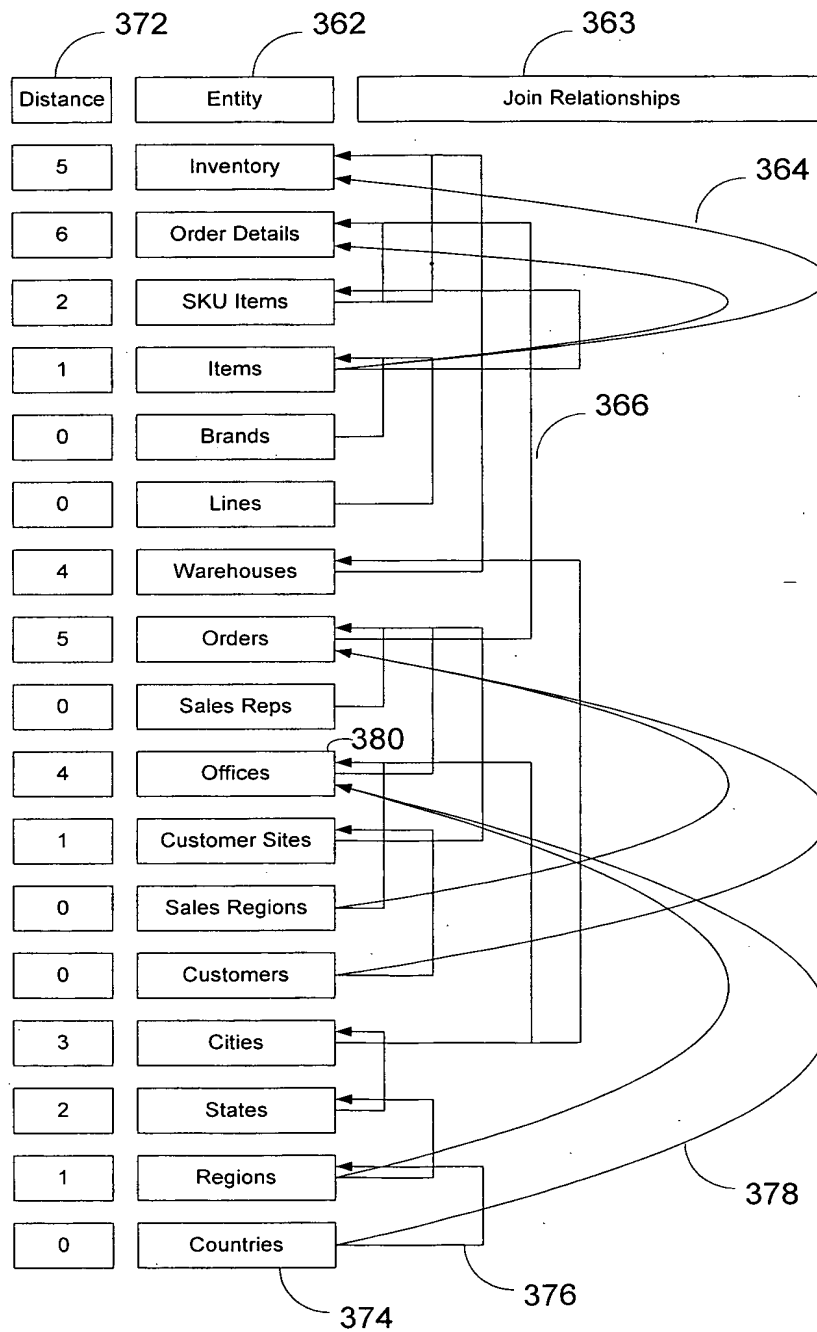


Fig. 23

370

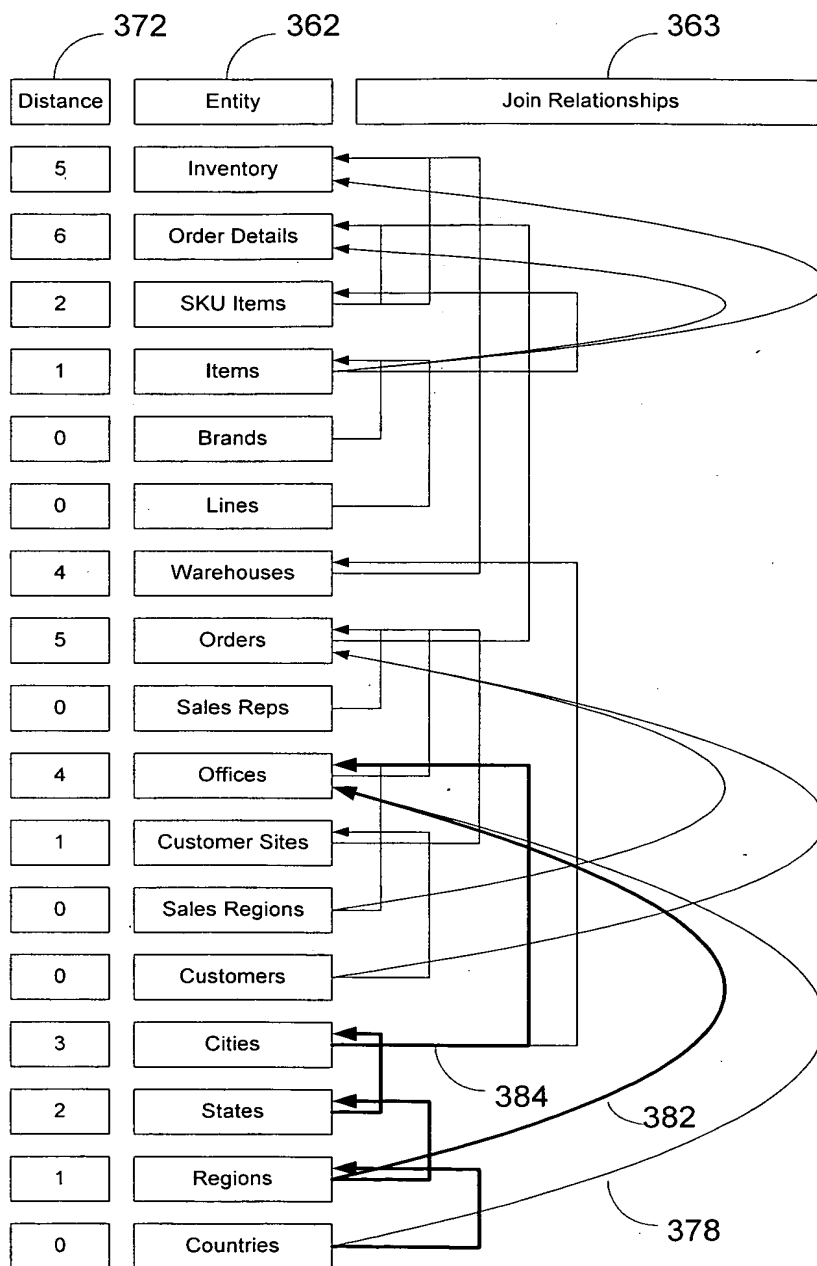


Fig. 24

| 2010-2011 |  | 2011-2012 |  | 2012-2013 |  | 2013-2014 |  | 2014-2015 |  | 2015-2016 |  | 2016-2017 |  | 2017-2018 |  | 2018-2019 |  | 2019-2020 |  | 2020-2021 |  | 2021-2022 |  | 2022-2023 |  | 2023-2024 |  | 2024-2025 |  | 2025-2026 |  | 2026-2027 |  | 2027-2028 |  | 2028-2029 |  | 2029-2030 |  | 2030-2031 |  | 2031-2032 |  | 2032-2033 |  | 2033-2034 |  | 2034-2035 |  | 2035-2036 |  | 2036-2037 |  | 2037-2038 |  | 2038-2039 |  | 2039-2040 |  | 2040-2041 |  | 2041-2042 |  | 2042-2043 |  | 2043-2044 |  | 2044-2045 |  | 2045-2046 |  | 2046-2047 |  | 2047-2048 |  | 2048-2049 |  | 2049-2050 |  | 2050-2051 |  | 2051-2052 |  | 2052-2053 |  | 2053-2054 |  | 2054-2055 |  | 2055-2056 |  | 2056-2057 |  | 2057-2058 |  | 2058-2059 |  | 2059-2060 |  | 2060-2061 |  | 2061-2062 |  | 2062-2063 |  | 2063-2064 |  | 2064-2065 |  | 2065-2066 |  | 2066-2067 |  | 2067-2068 |  | 2068-2069 |  | 2069-2070 |  | 2070-2071 |  | 2071-2072 |  | 2072-2073 |  | 2073-2074 |  | 2074-2075 |  | 2075-2076 |  | 2076-2077 |  | 2077-2078 |  | 2078-2079 |  | 2079-2080 |  | 2080-2081 |  | 2081-2082 |  | 2082-2083 |  | 2083-2084 |  | 2084-2085 |  | 2085-2086 |  | 2086-2087 |  | 2087-2088 |  | 2088-2089 |  | 2089-2090 |  | 2090-2091 |  | 2091-2092 |  | 2092-2093 |  | 2093-2094 |  | 2094-2095 |  | 2095-2096 |  | 2096-2097 |  | 2097-2098 |  | 2098-2099 |  | 2099-2100 |  | 2100-2101 |  | 2101-2102 |  | 2102-2103 |  | 2103-2104 |  | 2104-2105 |  | 2105-2106 |  | 2106-2107 |  | 2107-2108 |  | 2108-2109 |  | 2109-2110 |  | 2110-2111 |  | 2111-2112 |  | 2112-2113 |  | 2113-2114 |  | 2114-2115 |  | 2115-2116 |  | 2116-2117 |  | 2117-2118 |  | 2118-2119 |  | 2119-2120 |  | 2120-2121 |  | 2121-2122 |  | 2122-2123 |  | 2123-2124 |  | 2124-2125 |  | 2125-2126 |  | 2126-2127 |  | 2127-2128 |  | 2128-2129 |  | 2129-2130 |  | 2130-2131 |  | 2131-2132 |  | 2132-2133 |  | 2133-2134 |  | 2134-2135 |  | 2135-2136 |  | 2136-2137 |  | 2137-2138 |  | 2138-2139 |  | 2139-2140 |  | 2140-2141 |  | 2141-2142 |  | 2142-2143 |  | 2143-2144 |  | 2144-2145 |  | 2145-2146 |  | 2146-2147 |  | 2147-2148 |  | 2148-2149 |  | 2149-2150 |  | 2150-2151 |  | 2151-2152 |  | 2152-2153 |  | 2153-2154 |  | 2154-2155 |  | 2155-2156 |  | 2156-2157 |  | 2157-2158 |  | 2158-2159 |  | 2159-2160 |  | 2160-2161 |  | 2161-2162 |  | 2162-2163 |  | 2163-2164 |  | 2164-2165 |  | 2165-2166 |  | 2166-2167 |  | 2167-2168 |  | 2168-2169 |  | 2169-2170 |  | 2170-2171 |  | 2171-2172 |  | 2172-2173 |  | 2173-2174 |  | 2174-2175 |  | 2175-2176 |  | 2176-2177 |  | 2177-2178 |  | 2178-2179 |  | 2179-2180 |  | 2180-2181 |  | 2181-2182 |  | 2182-2183 |  | 2183-2184 |  | 2184-2185 |  | 2185-2186 |  | 2186-2187 |  | 2187-2188 |  | 2188-2189 |  | 2189-2190 |  | 2190-2191 |  | 2191-2192 |  | 2192-2193 |  | 2193-2194 |  | 2194-2195 |  | 2195-2196 |  | 2196-2197 |  | 2197-2198 |  | 2198-2199 |  | 2199-2200 |  | 2200-2201 |  | 2201-2202 |  | 2202-2203 |  | 2203-2204 |  | 2204-2205 |  | 2205-2206 |  | 2206-2207 |  | 2207-2208 |  | 2208-2209 |  | 2209-2210 |  | 2210-2211 |  | 2211-2212 |  | 2212-2213 |  | 2213-2214 |  | 2214-2215 |  | 2215-2216 |  | 2216-2217 |  | 2217-2218 |  | 2218-2219 |  | 2219-2220 |  | 2220-2221 |  | 2221-2222 |  | 2222-2223 |  | 2223-2224 |  | 2224-2225 |  | 2225-2226 |  | 2226-2227 |  | 2227-2228 |  | 2228-2229 |  | 2229-2230 |  | 2230-2231 |  | 2231-2232 |  | 2232-2233 |  | 2233-2234 |  | 2234-2235 |  | 2235-2236 |  | 2236-2237 |  |
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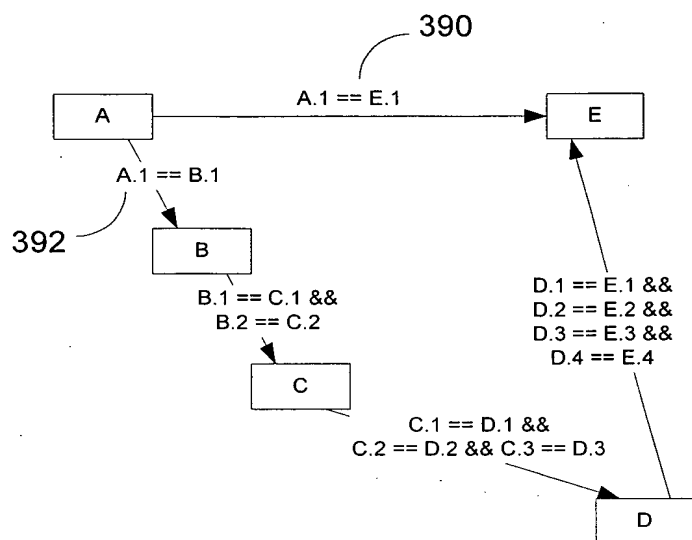
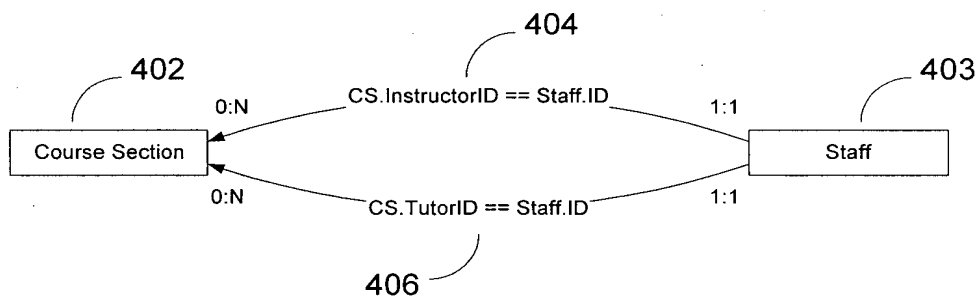


Fig. 25

Source  
400

Target  
410

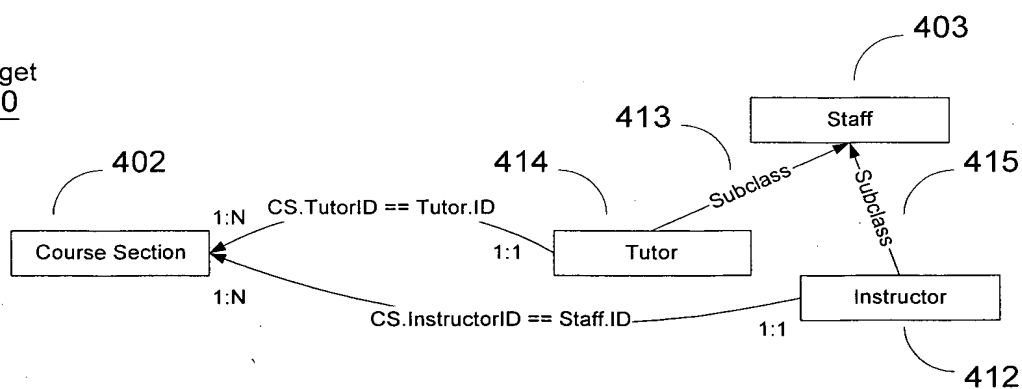
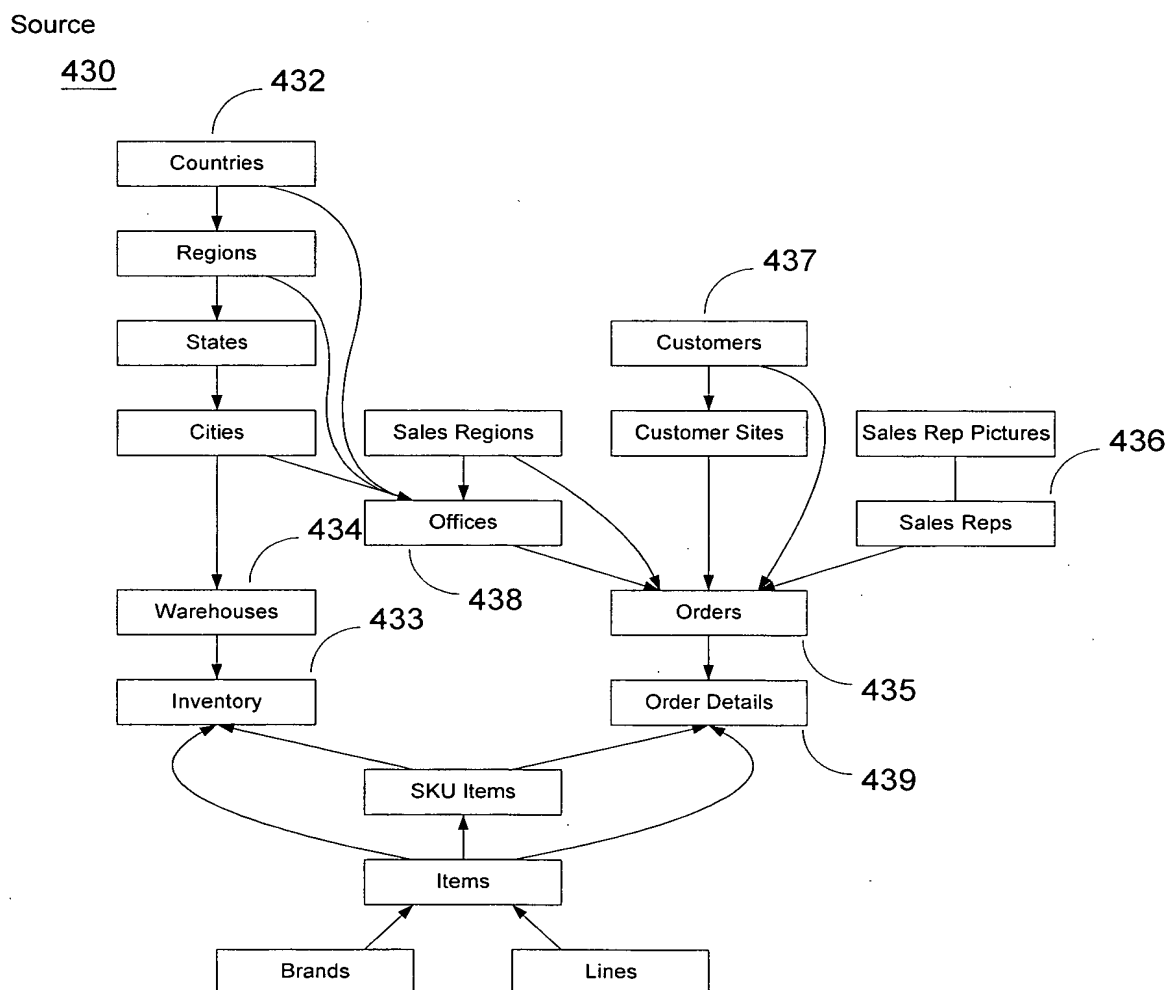
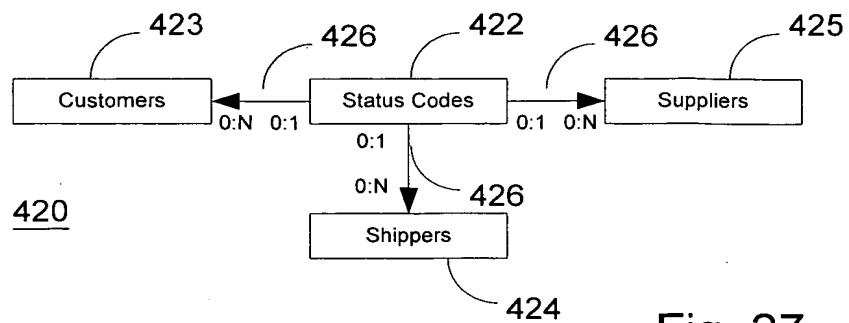
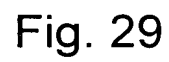


Fig. 26

|  | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 2368 | 2369 | 2370 | 2371 | 2372 | 2373 | 2374 | 2375 | 2376 | 2377 | 2378 | 2379 | 2380 | 2381 | 2382 | 2383 | 2384 | 2385 | 2386 | 2387 | 2388 | 2389 | 2390 | 2391 | 2392 | 2393 | 2394 | 2395 | 2396 | 2397 | 2398 | 2399 | 2400 | 2401 | 2402 | 2403 | 2404 | 2405 | 2406 | 2407 | 2408 | 2409 | 2410 | 2411 | 2412 | 2413 | 2414 | 2415 | 2416 | 2417 | 2418 | 2419 | 2420 | 2421 | 2422 | 2423 | 2424 | 2425 | 2426 | 2427 | 2428 | 2429 | 2430 | 2431 | 2432 | 2 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|





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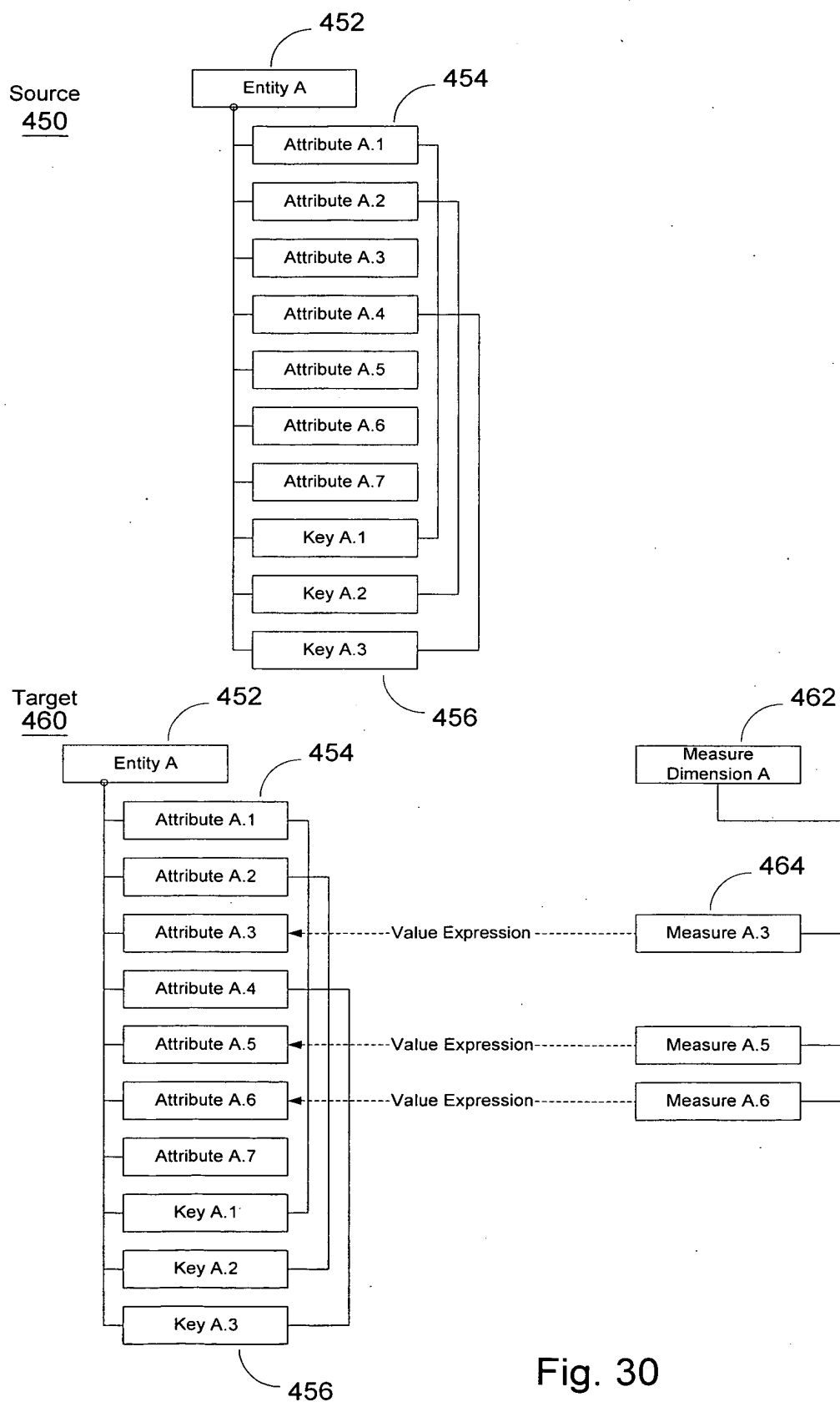


Fig. 30

096287-0000



Fig. 31

Target  
480

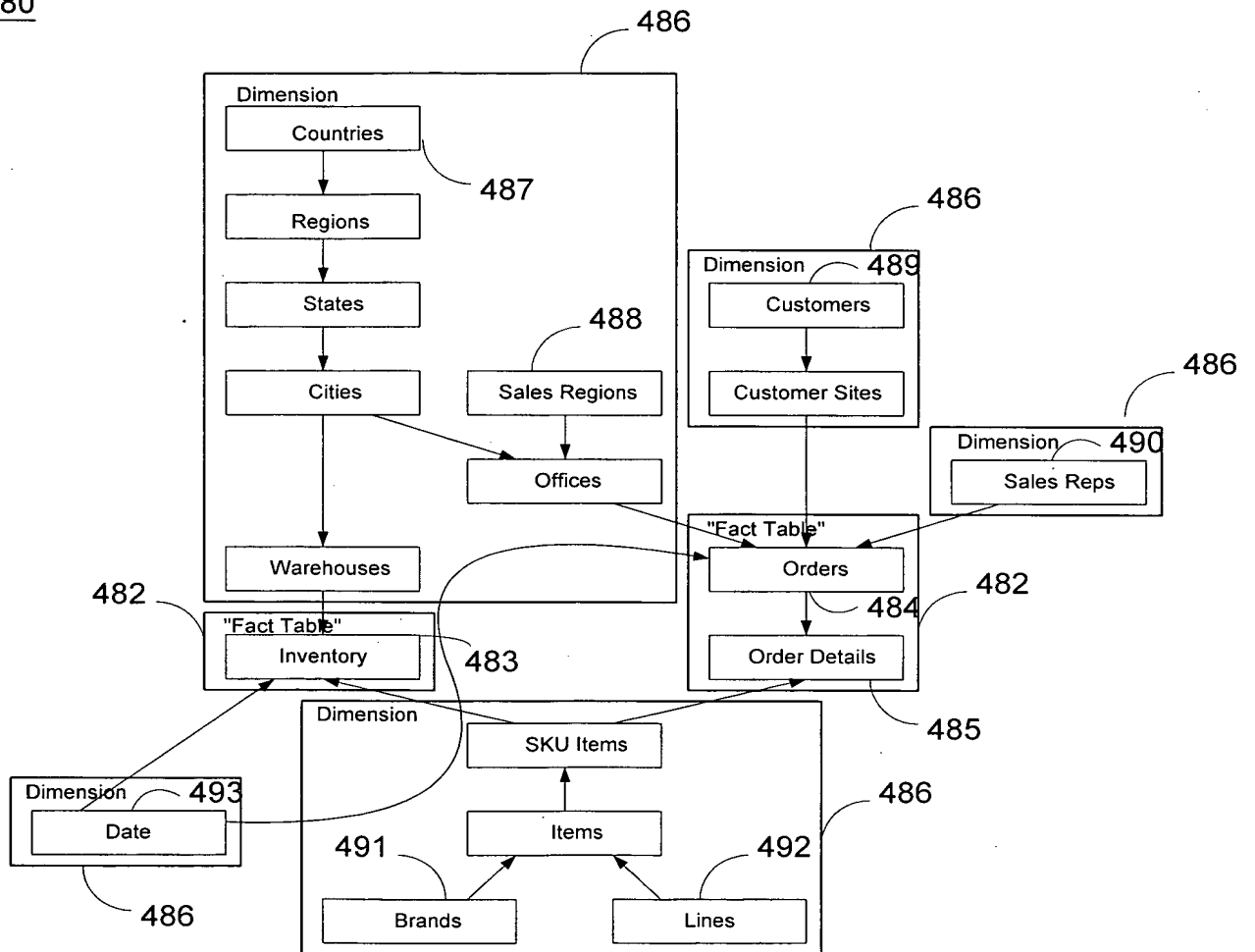
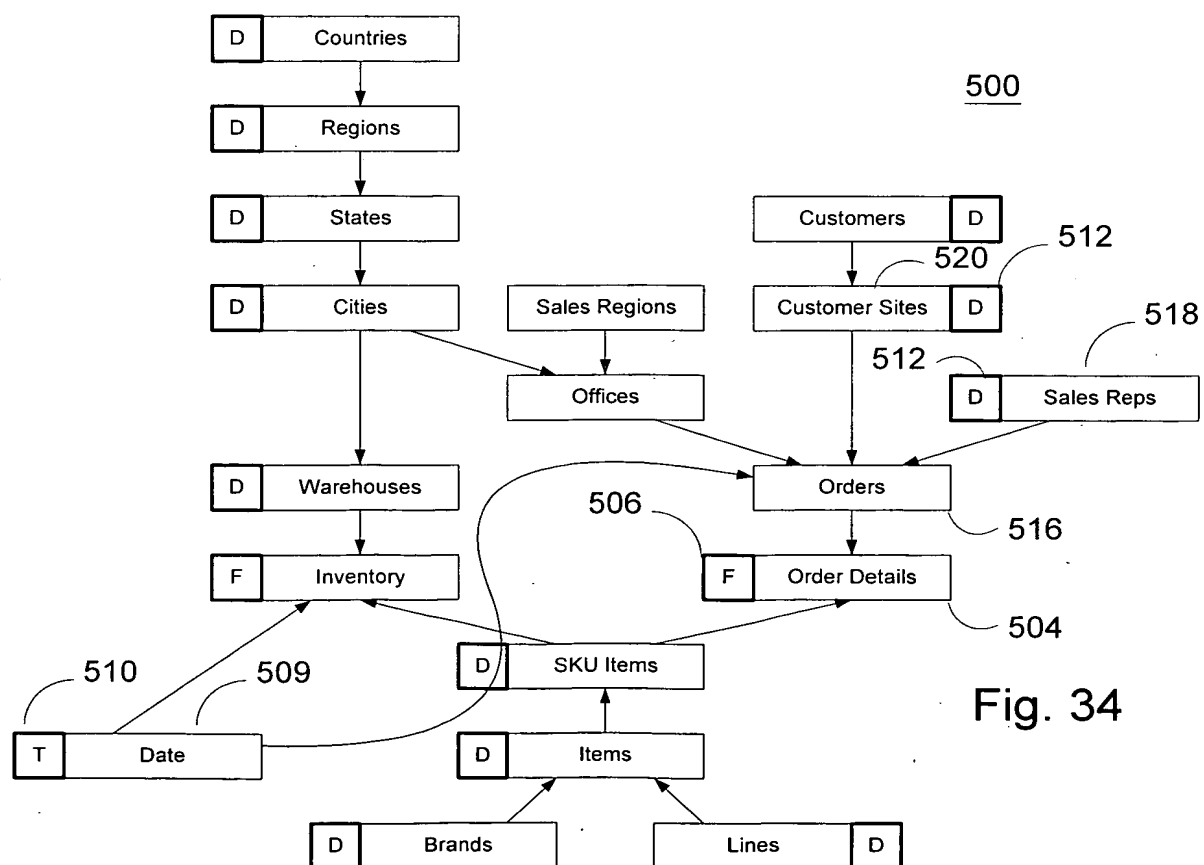
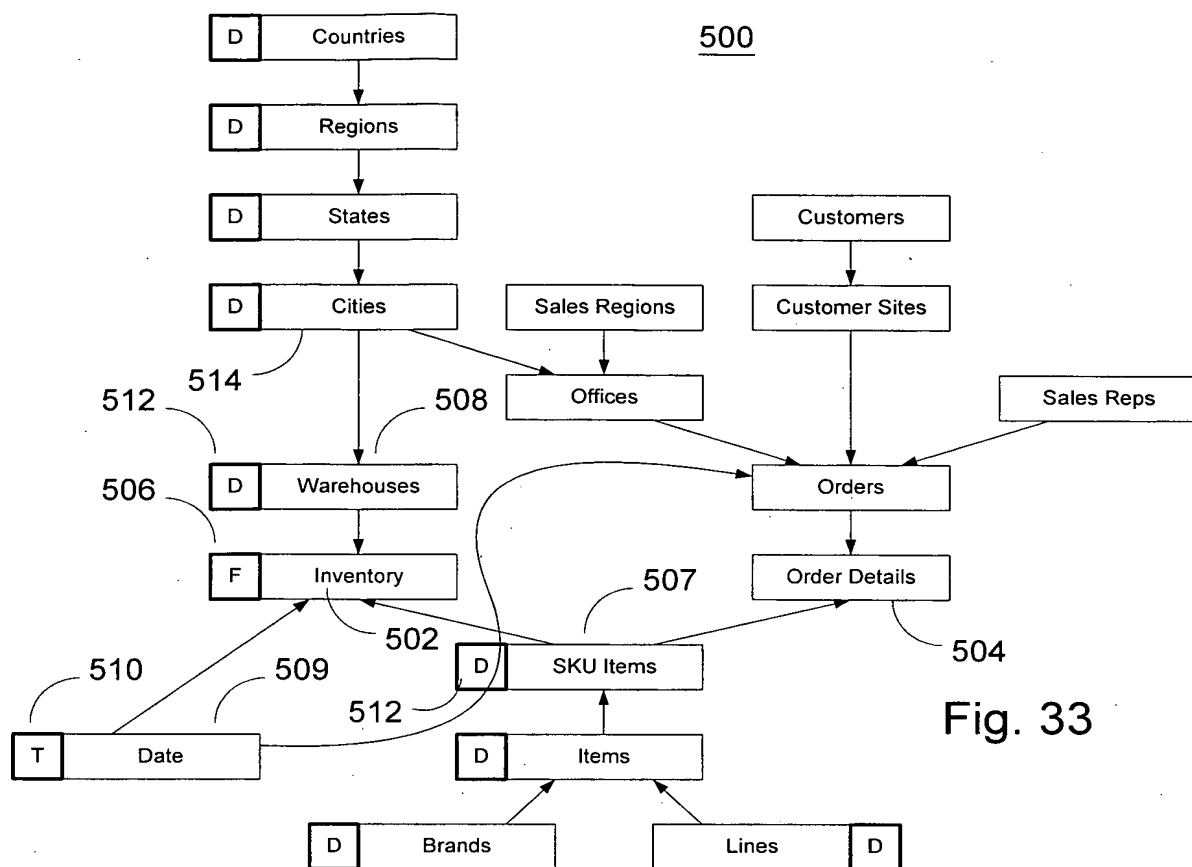


Fig. 32



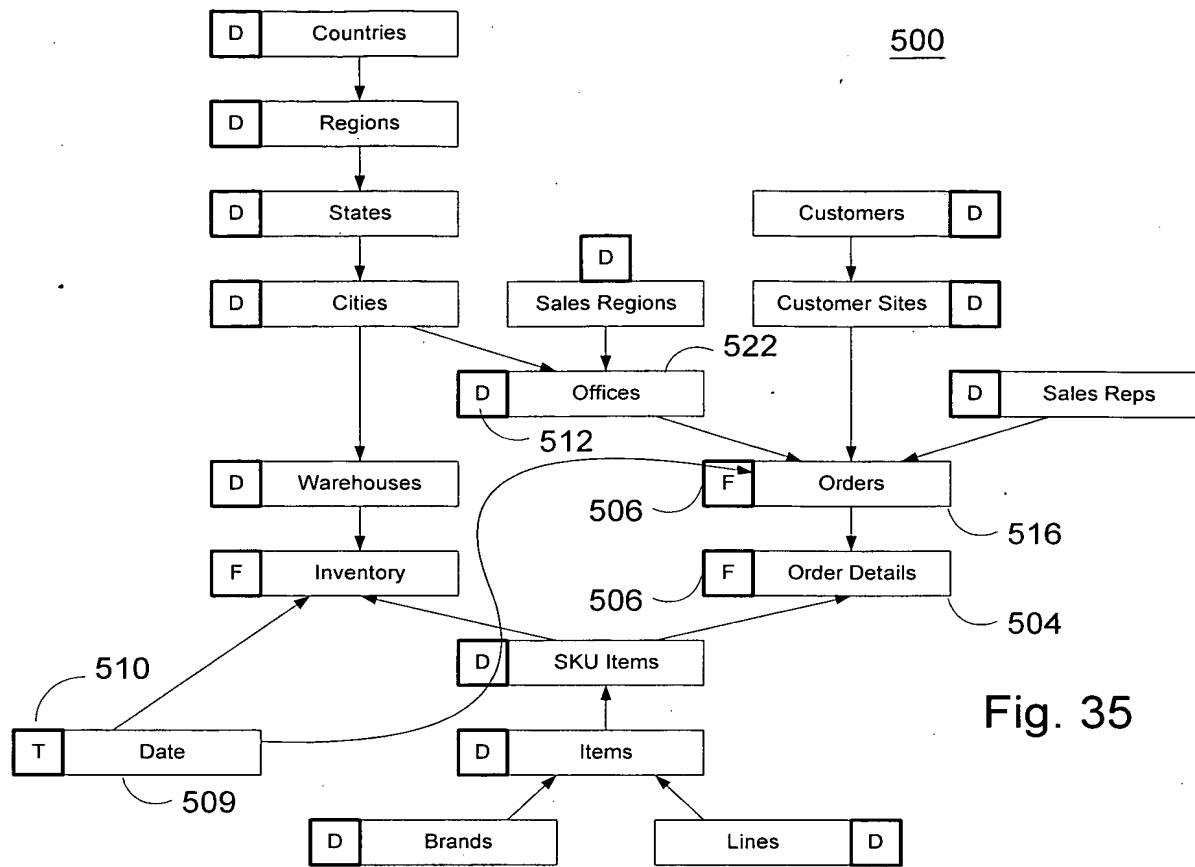


Fig. 35

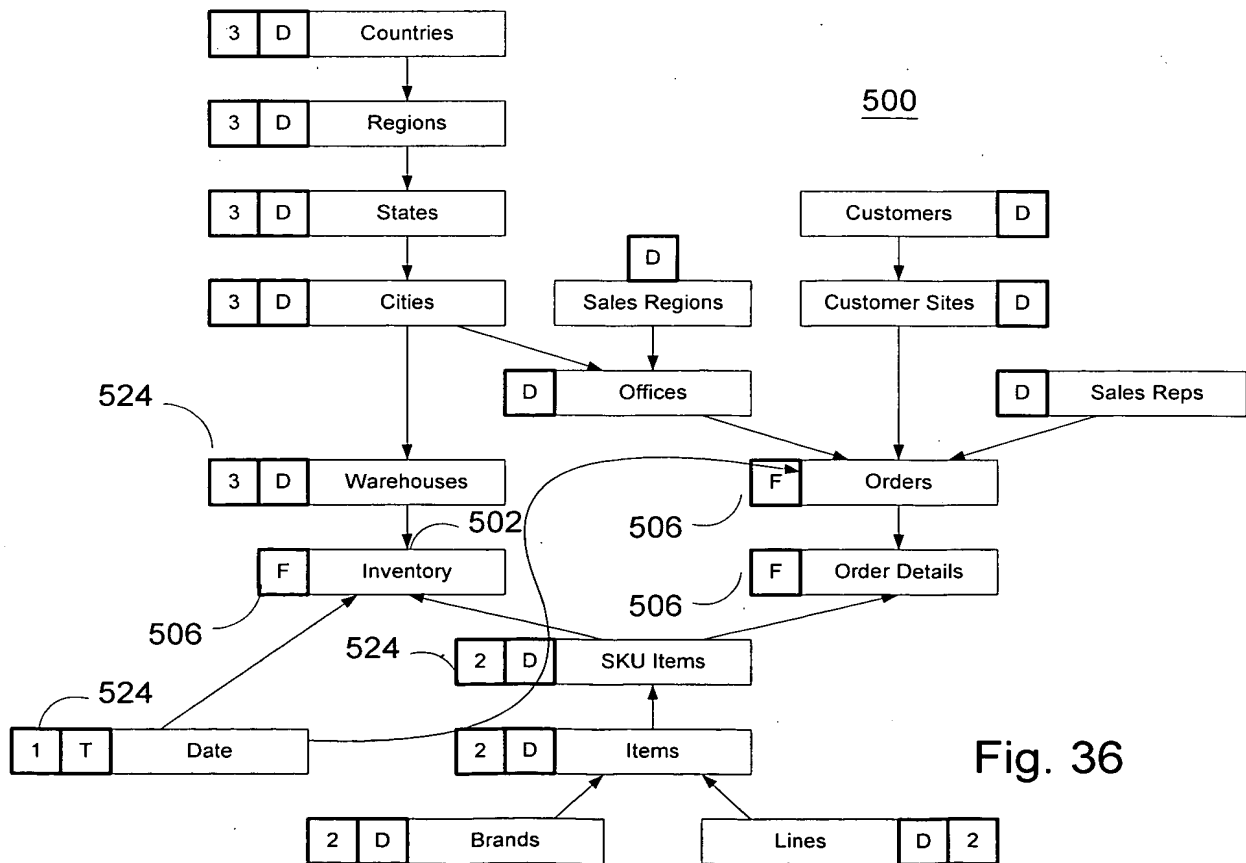


Fig. 36

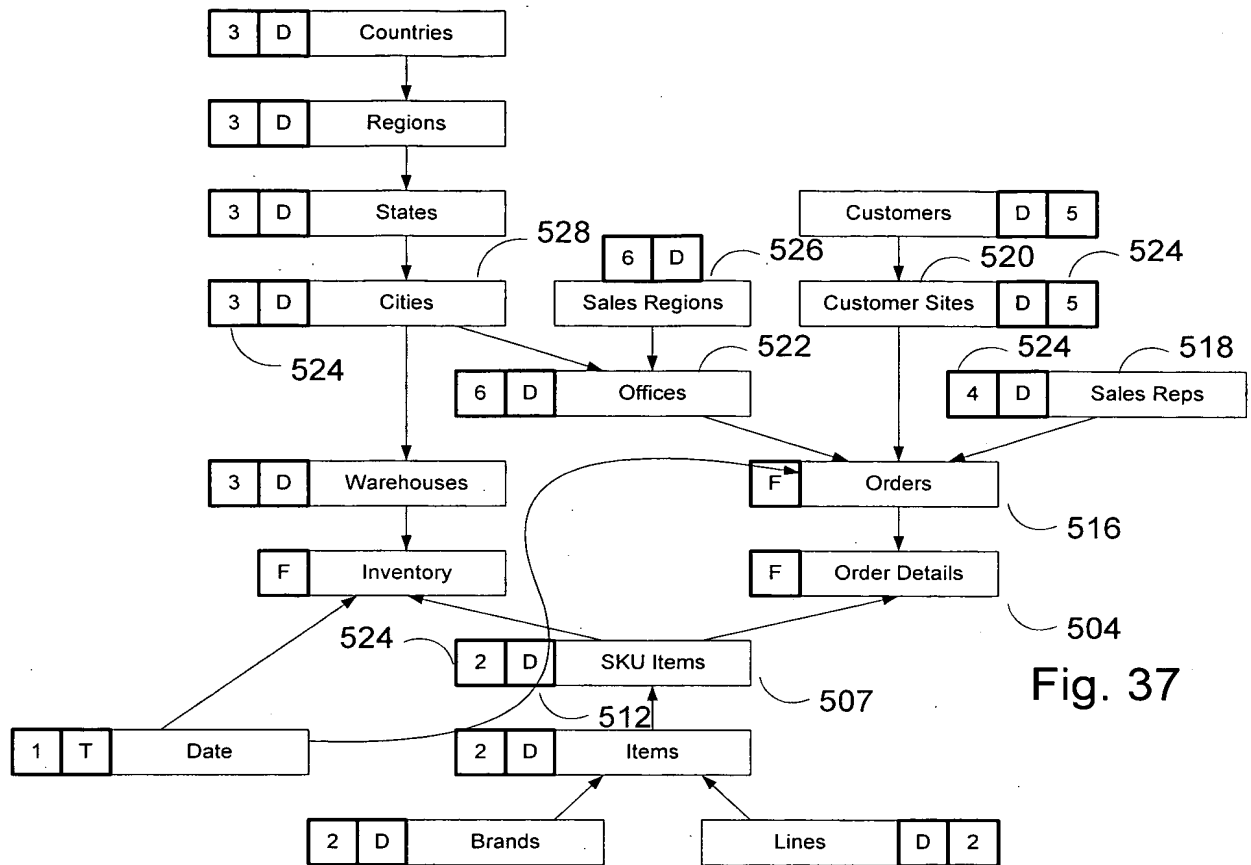


Fig. 37

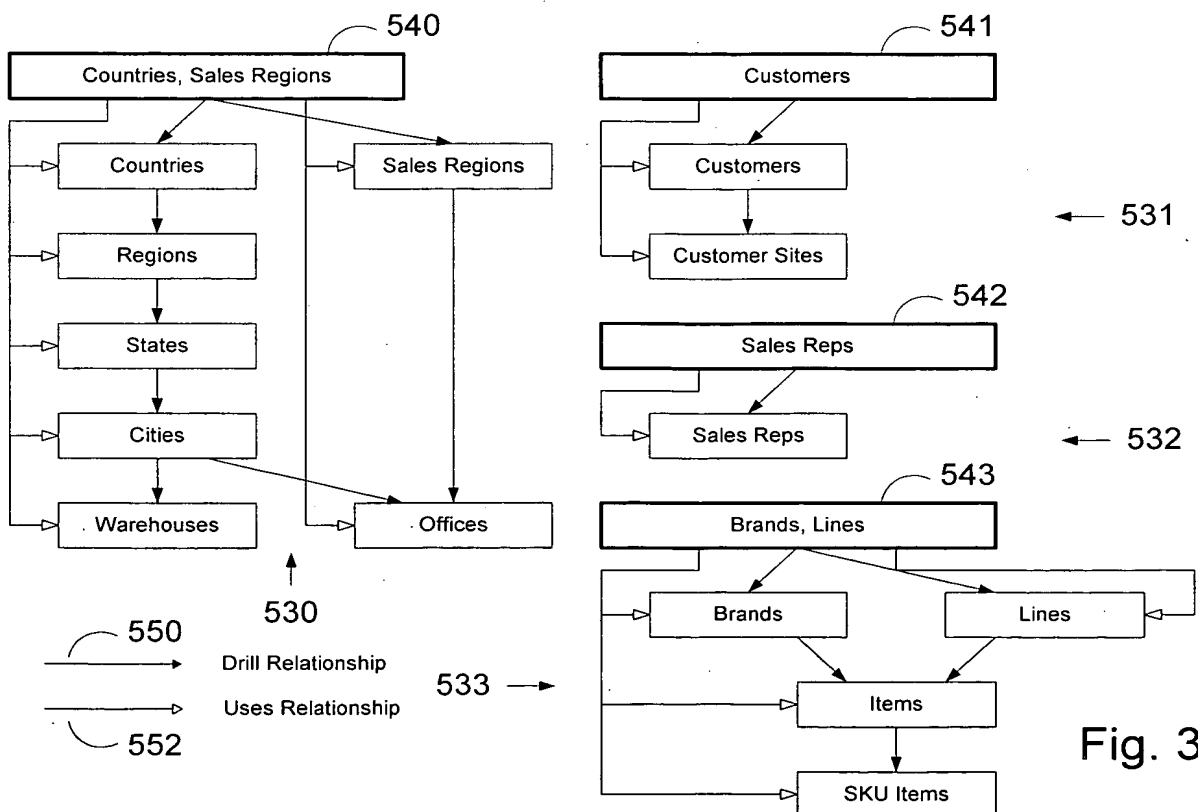


Fig. 38

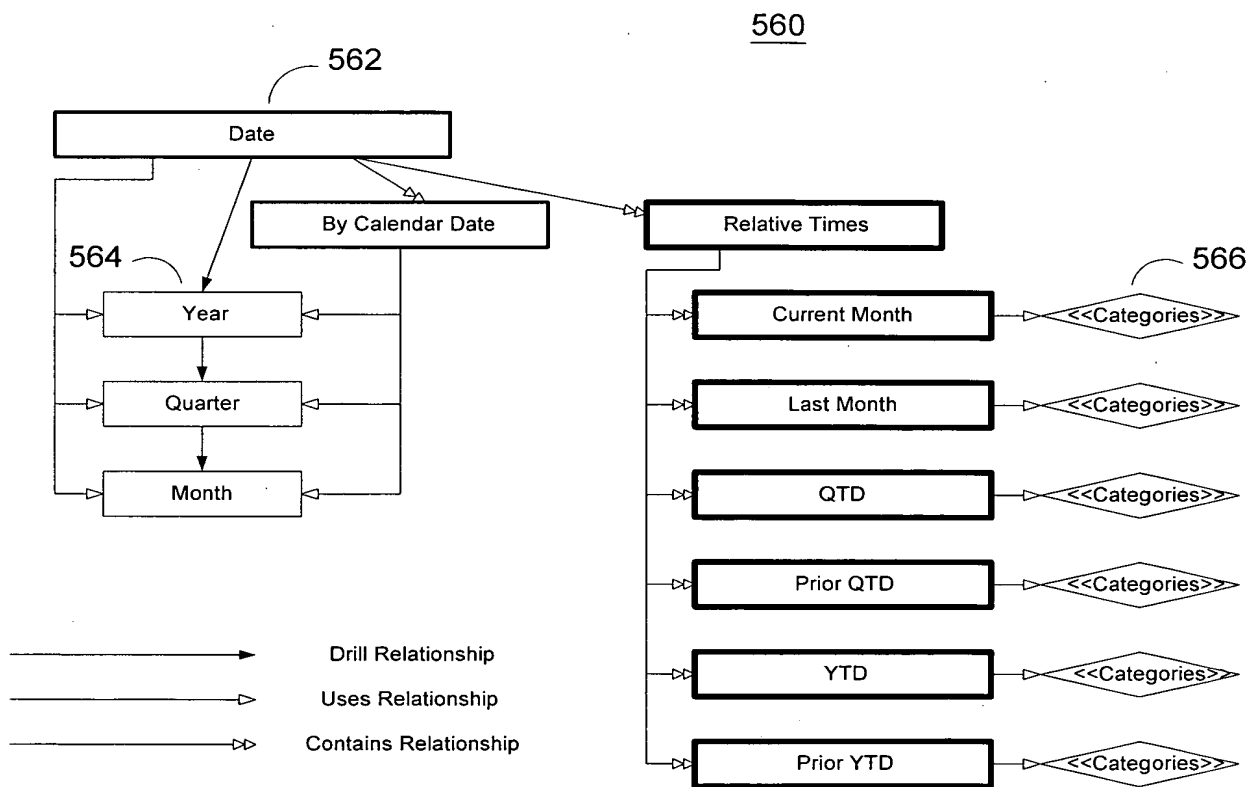
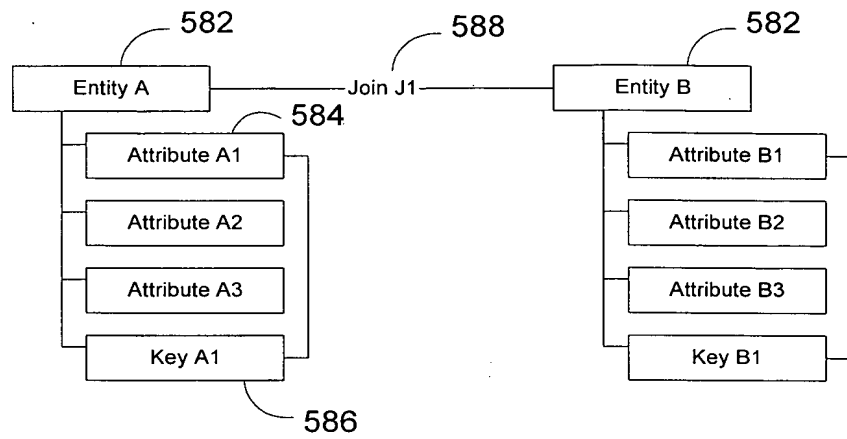


Figure 39



Source  
580



Target  
590

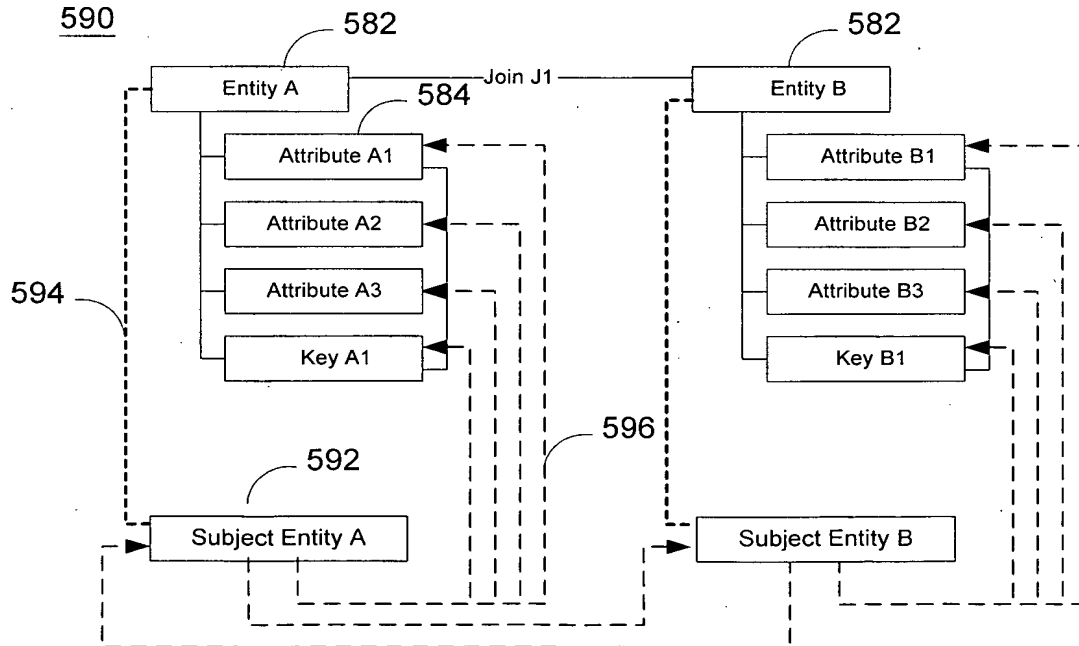


Fig. 40

007060 2895960

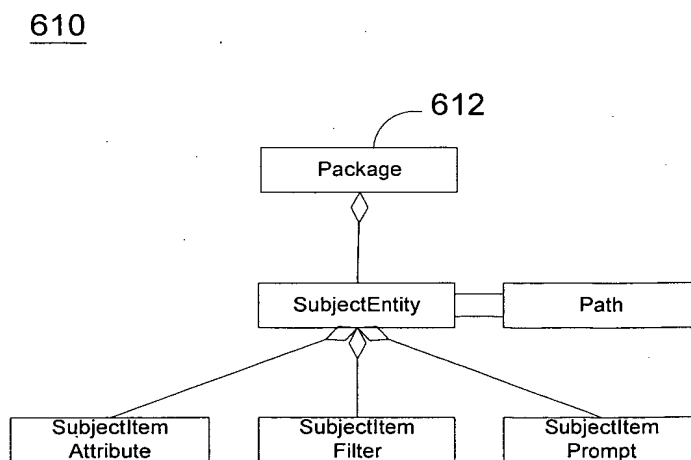
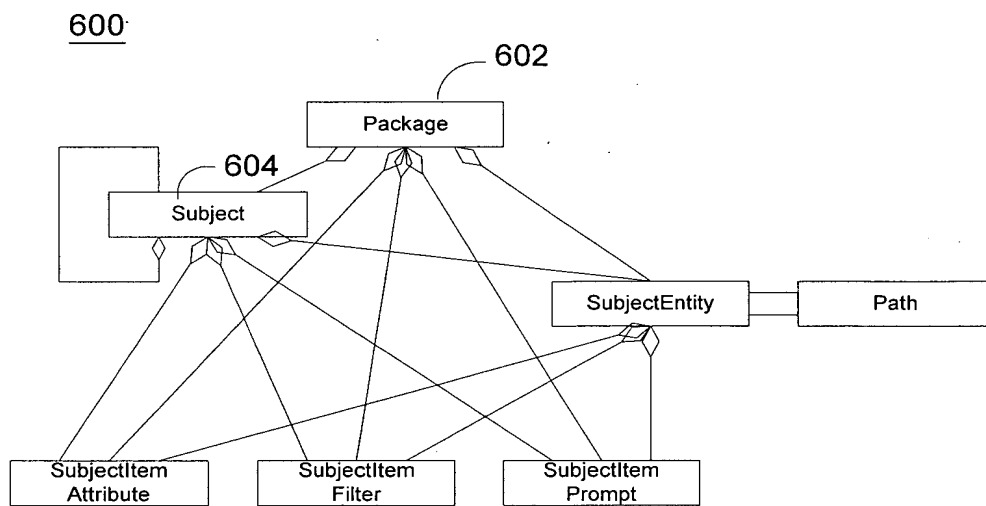


Fig. 41